

# LAND USE PLANNING (LUP) AREA BOUNDARIES DATA STANDARD REPORT

March 26, 2010

Version 2.2

United States Department of Interior Bureau of Land Management National Operations Center Program Management Office Denver Federal Center Denver, Colorado 80225

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**1. Introduction** General Information about the standard (For more information see H 1283-1, Data Administration and Management Handbook, Chapter 7 - Developing Data Standards) General Information about the standard (For more information see WO-IM-2003-125 attachment 2: Guidance for Managing BLM Data Standards: How to Adopt, Implement, and Maintain Data Standards, pages 17-20)

#### **Description of Standard**

Provide a standard for data required to portray the boundary required for a Land Use Plan. In the Land Use Planning Handbook this is called the "*Planning Area*. The geographic area within which the BLM will make decisions during a planning effort. A planning area boundary includes all lands regardless of jurisdiction; however the BLM will only make decisions on lands that fall under the BLM's jurisdiction (including subsurface minerals). Unless the State Director determines otherwise, the planning area for a RMP is the geographic area associated with a particular field office (43 CFR 1610.1(b)). State Directors may also establish regional planning areas that encompass several field offices and/or states, as necessary."

The standard will facilitate portrayal, queries, and reporting for this data set.

This data standard concerns Land Use Planning Area Boundaries only. Other data standards will cover Land Use Decision Areas and Land Use Analysis Areas and Implementation Areas. A Decision Area may have its own ROD date, separate from the Land Use Plan itself.

The implementation of this data standard will include the links to the land use plans' websites, if available.

<b>Affected Groups</b> (who is effected, who should care)	Land Use Planners, GIS Specialists, and anyone who requires use of Land
	Use Plan Boundaries
<b>Sponsor</b> (business of sponsor)	Michael Tupper, Branch Chief, Decision Support (WO-210)

## **2. Data Steward/GIS Contact Identification** *Include lead agency if appropriate; who is/are the data steward(s) and GIS Contact(s)*

Office	Role	Name	<b>Contact Information</b>
WO-210	Business Data Steward, Branch Chief,	Sandra Meyers	Sandra_Meyers@blm.gov
	Planning and NEPA (WO-210)		202-557-3373
		Leonard Gore	Leonard_Gore@blm.gov
			202-557-3563
WO-210	BLM Geospatial Data Steward	Bob Bewley	Bob_Bewley@blm.gov
			202 452-5111

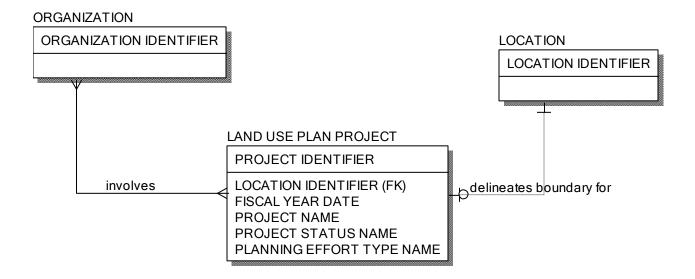
Overall Security: Identify	PUBLIC for current approved	plans and for boundaries during comment periods				
security level (e.g. public/ non-	INTERNAL only for work products					
public) If non-public state why						
Who has create, read, update,	GIS Specialists, Land Use Planners					
and/or delete privileges						
Data Collection & Maintenance	a) Accuracy Requirements:	The expected data accuracy will be 95% according to data				
Protocols: data collection and maintenance procedures that	what level is required?	steward.				
would apply		The expected spatial accuracy is approximately +/- 40 feet. The actual measured spatial accuracy is located within the attributes of the data.  Spatial Accuracy: ACCURACY MEASUREMENT IN FEET				
	b) Collection & Input Protocols: what are approved methods?	There is currently no single method for data collection and input for this data set. Data may be collected and input from a variety of sources as long as the data are documented with metadata. BLM has not yet migrated enough of its existing data stores to any specific format to eliminate any methods for digital data collection.				
		For creating baseline boundaries, use the best available source using in priority order: Cadastral, GCDB, NAIP, 1/24k DRG.				
	c) Update Procedures: On what basis are updates completed (e.g. township basis, case file basis); how often; by when?	Land Use Planning Area Boundaries are updated on new plan development. Revisions or amendments that require changes to the planning area will be updated on an annual basis.  The original boundaries that were updated will be placed in the				
	often, by when?	historical data set.  At the state level, on an annual basis, the data sets (arcs and polygons) will be archived.				

Data Quality: measures that will	a) Transaction level data		Verified by WO Planning Coordinator upon updates to the		
be applied to the data	quality: how will review of		national data set for overlaps, gaps and other geospatial issues		
	data quality take place	ce during	and to ensure all data is compliant with BLM policy.		
	data entry				
	b) Monitoring level	data	GIS Specialist and State Planning Lead should both review the		
	quality: what system	atic	data for quality upon entry and then during at least annual		
	review of data qualit	y will	reviews. At least a semi-annual review will take place in June		
	take place and how v	will it be	and December of each year.		
	done?		·		
Relationship to Other Standards:	Identify any other	Land Use	Land Use Decision Areas, Land Use Analysis Areas and Implementation		
data standards (or applications) that	t are related.	Areas are	related to this standard.		
		All boundaries designated by Land Use Plans, such as Areas of Critical			
		Environmental Concern, Grazing (Allotment, Pastures), National Resource			
		Conservation System (NRCS), Visual Resource Management (VRM).			
		Also relat	ed: BLM Administrative Office Boundaries and Land Health		
		Reporting	•		

- **4. Data Model Characteristics** *Each data standard is to be supported by a data model which includes entities and relationships between entities*
- a) Conceptual Data Model a high-level data model that presents the basic concepts that are included in a logical data model.
- b) **Logical Data Model** a detailed, graphical depiction of logical data showing entities (tables) and how they relate to each other.
- c) Entity Descriptions: places, persons, things, or concepts described in the data set (aka tables)

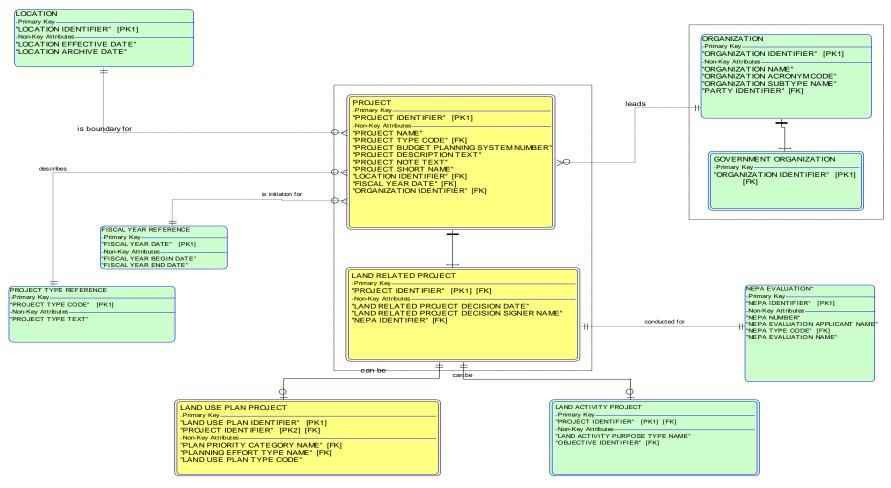
Notes: Data Element Names (aka fields) - must adhere to WO IM-2004-60 Attachment 3: Data Element Naming Conventions

## Land Use Planning Boundary Conceptual Data Model



#### Land Use Planning Boundary Logical Data Model

This is a diagram of land use planning boundaries. The 'green' entities are not part of this standard (and do not need to be reviewed). They are provided to show context and provide relationships to other data only. To improve viewing, zoom to 150%; to print a larger version, use the 11'x17' model on the same webpage as this document.



Legend: PK (Primary Key) – uniquely identifies one occurrence (row) of the entity; FK (Foreign Key): is all or part of the PK of another entity it is related to. PK1, PK2 – indicates the PK is made of more than 1 attribute to make it unique. The Word Identifier indicates that this will be a designed key, its format is not known, but the modeling tool required a format and size. The actual content and size of the identifier will be determined during design.

This lists all entities and attributes (in alphabetical order) in the logical data model shown above. Not all attributes listed below, while important to Land Use Planning, will be included in the implementation of the data standard. In some cases, the attributes are already included in planned or existing systems and would be redundant if captured in more than one place.

PROJECT DECISION DATE  LAND RELATED PROJECT DECISION SIGNER NAME  PROJECT IDENTIFIER  Character  Character Character  100  Opt The name of the person who signs the decisions, agreeing that the decisions can be adopted.  Yes  PK The designed primary key that will uniquely identified to the person who signs the decisions of the person who signs the decisions of the person who signs the decisions of the person who signs the decisions.  The name of the person who signs the decisions of the person who signs the decisions of the person who signs the decisions.  PROJECT DECISION SIGNER NAME  PROJECT IDENTIFIER  The designed primary key that will uniquely identified the person who signs the decisions of the person who signs the person who signs the decisions of the person who signs the person who s	Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Required?	Key	Definition
(Implementation) Projects.  LAND RELATED	LAND F	RELATED PROJE	CT				1	DRAFT ENTITY
LAND RELATED PROJECT DECISION DATE LAND RELATED LAND RELATED PROJECT DECISION DATE LAND RELATED PROJECT DECISION SIGNER NAME PROJECT IDENTIFIER  Character  Character		A type of project	that is related to work that is	planned and	d imple	mented on	BLM la	and. This includes Land Use Plans and Land Activity
PROJECT DECISION DATE  LAND RELATED PROJECT DECISION SIGNER NAME  PROJECT IDENTIFIER  Character  Character  Character  Character  Character  PROJECT IDENTIFIER  Character  Char		(Implementation)	) Projects.					
DATE  LAND RELATED  PROJECT DECISION  SIGNER NAME  PROJECT IDENTIFIER  Character  100  Opt  The name of the person who signs the decisions, agreeing that the decisions can be adopted.  PK  The designed primary key that will uniquely identified to the person who signs the decisions, agreeing that the decisions can be adopted.				date		Opt		The date on which the decision is signed by the person
LAND RELATED PROJECT DECISION SIGNER NAME PROJECT IDENTIFIER  character 100 Opt The name of the person who signs the decisions, agreeing that the decisions can be adopted.  Yes PK The designed primary key that will uniquely identified to the person who signs the decisions, agreeing that the decisions can be adopted.								who has approval authority for the decisions.
PROJECT DECISION SIGNER NAME PROJECT IDENTIFIER  Character  12  Yes  PK  The designed primary key that will uniquely identifications of the process of the decisions can be adopted.  The designed primary key that will uniquely identifications of the process of the decisions can be adopted.			DATE					
SIGNER NAME PROJECT IDENTIFIER character 12 Yes PK The designed primary key that will uniquely identified by the character of			LAND RELATED	character	100	Opt		The name of the person who signs the decisions,
PROJECT IDENTIFIER character 12 Yes PK The designed primary key that will uniquely identified the property of			PROJECT DECISION					agreeing that the decisions can be adopted.
The designed primary key that will dring dely define			SIGNER NAME					
aingle accurrence of the entity			PROJECT IDENTIFIER	character	12	Yes	PK	The designed primary key that will uniquely identify a
single occurrence of the entity.								single occurrence of the entity.
NEPA IDENTIFIER character 10 Yes FK The designed primary key that will uniquely identified			NEPA IDENTIFIER	character	10	Yes	FK	The designed primary key that will uniquely identify a
single occurrence of the entity.								

#### LAND USE PLAN PROJECT

**DRAFT ENTITY** 

A project that documents the guidance for the management of surface public lands and subsurface mineral estate within a defined geographic area. A Land Use Plan is a set of decisions that establish management direction for land within an administrative area, as prescribed under the planning provisions of FLPMA; an assimilation of land-use-plan-level decisions developed throughout the planning process outline in 43 CFR 1600, regardless of the scale at which the decisions were developed. (Land Use Planning Manual).

iii ie ei it ieee, legalaleee el	and dodied a		1 1110 4001010	,,,,,	re developed: (Land eee rianning manda).
LAND USE PLAN IDENTIFIER	character	12	Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
PROJECT IDENTIFIER	character	12	Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
PLANNING EFFORT TYPE NAME	character	10	Yes	FK	The name of the type of planning effort that is being conducted, depending on the requirements for the plan. Domain: new, revision, amendment.
PLAN PRIORITY CATEGORY NAME	character	20	Yes	FK	A name that designates the priority category of a plan. Example values could include: none, time sensitive, NLCS, energy, other.
LAND USE PLAN TYPE CODE	character	3	Yes		A code that indicates the type of land use plan (an RMP or an MFP).

#### **PROJECT**

A temporary endeavor undertaken to create a unique product, service or result. It has a start and end date, defined deliverables, interrelated activities and requires resources and a sponsor.

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Required?	Key	Definition
		PROJECT IDENTIFIER	character	12	Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
		PROJECT TYPE CODE	character	10	Yes	FK	The code that designates the type of project that is being conducted.
		PROJECT NAME	character	255	Yes		The name given to a project that represents the full, official name associated with the project.
		PROJECT BUDGET PLANNING SYSTEM NUMBER	character	10	Opt		A number that identifies the information related to a budget plan for the project.
		PROJECT DESCRIPTION TEXT	character	200	Yes		The text that further describes the project with any additional details.
		PROJECT NOTE TEXT	character	255	Opt		Text which contains optional information relevant to the project.
		PROJECT SHORT NAME	character	40	Yes		A name by which the project can be identified that is a shorter version of the full Project Name.
		LOCATION IDENTIFIER	integer		Yes	FK	The designed primary key that will uniquely identify a single occurrence of the entity.
		ORGANIZATION IDENTIFIER	integer		Yes	FK	The designed primary key that will uniquely identify a single occurrence of the entity.
		FISCAL YEAR DATE	character	4	Yes	FK	The date which indicates a fiscal year for the Government. (The year the project was initiated).

\*Key (PK: Primary Key) (FK: Foreign Key which is PK of related entity) (PK, FK: Foreign Key part of PK)

The following entities shown on the logical data model are not part of this standard but are here for informational purposes.

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Require d?	Key*	Definition
GOVERNMENT ORGANIZATION  A type of organization that is a governmental unit.  DRAFT ENTITY							
	<u> </u>	ORGANIZATION IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
LOCAT	ION					•	DRAFT ENTITY
	A defined place			eans. N	Note: Entit	ies linke	d to Location have the potential for a geospatial aspect.
		LOCATION ARCHIVE DATE	date		Opt		The date which is the calendar year, month, and day when the position of the Location is considered no longer valid but has historical value.
		LOCATION EFFECTIVE DATE	date		Yes		The date which is the calendar year, month, and day when the position of the Location was produced.
		LOCATION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
NEPA E	VALUATION	•					APPROVED ENTITY: BLM
A required evaluation which follows the procedures in the National Environmental Policy Act regulations to analyze the environmental							
			dures in the f	Nationa	al Environ	mentai F	olicy Act regulations to analyze the environmental
		of a federal action.	dures in the f	Nationa	al Environ		
		of a federal action.  NEPA IDENTIFIER	character	Nationa 12	AI Environ Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
		of a federal action.			Yes		The designed primary key that will uniquely identify a
		of a federal action.  NEPA IDENTIFIER	character	12			The designed primary key that will uniquely identify a single occurrence of the entity.  The text that provides additional information on the decision that has been signed by the responsible
		of a federal action.  NEPA IDENTIFIER  NEPA DESICION TEXT  NEPA PROJECT	character	200	Yes Opt Opt		The designed primary key that will uniquely identify a single occurrence of the entity.  The text that provides additional information on the decision that has been signed by the responsible official.  The name of the project proponent who submitted the application that resulted in the NEPA project being
		of a federal action.  NEPA IDENTIFIER  NEPA DESICION TEXT  NEPA PROJECT APPLICANT NAME	character  character  character  character	12 200 100 29	Yes Opt Opt Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.  The text that provides additional information on the decision that has been signed by the responsible official.  The name of the project proponent who submitted the application that resulted in the NEPA project being created.  The alphanumeric number assigned to a NEPA project which contains the department, agency, state, office, year, document counter and NEPA type.
ORGAN	impacts as part of	NEPA IDENTIFIER  NEPA DESICION TEXT  NEPA PROJECT APPLICANT NAME  NEPA NUMBER	character	200	Yes Opt Opt		The designed primary key that will uniquely identify a single occurrence of the entity.  The text that provides additional information on the decision that has been signed by the responsible official.  The name of the project proponent who submitted the application that resulted in the NEPA project being created.  The alphanumeric number assigned to a NEPA project which contains the department, agency, state, office, year, document counter and NEPA type.  The code associated with the NEPA TYPE NAME that designates the type of NEPA project. Domain values: EA, EIS, CX and DNA.
ORGAN	impacts as part of	NEPA IDENTIFIER  NEPA DESICION TEXT  NEPA PROJECT APPLICANT NAME  NEPA NUMBER	character  character  character  character	12 200 100 29	Yes Opt Opt Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.  The text that provides additional information on the decision that has been signed by the responsible official.  The name of the project proponent who submitted the application that resulted in the NEPA project being created.  The alphanumeric number assigned to a NEPA project which contains the department, agency, state, office, year, document counter and NEPA type.  The code associated with the NEPA TYPE NAME that designates the type of NEPA project. Domain values:

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Require d?	Key*	Definition
		ORGANIZATION NAME	character	100	Yes		The official name by which the organization is known. An organization may include businesses, agencies, or corporations, but not individual persons.
		ORGANIZATION SUBTYPE NAME	character	20	Yes		A description of the type of organization within an organization class (e.g., department, region, agency, etc.).
		ORGANIZATION ACRONYM CODE	character	10	Opt		The code that indicates the preferred acronym for an organization.
		PARTY IDENTIFIER	integer		Yes	FK	The designed primary key that will uniquely identify a single occurrence of the entity.
PROJEC	CT TYPE REFER	ENCE		•			DRAFT ENTITY
	The domain of va	alues for each of the codes as:	sociated wit	h a typ	e of proje	ct.	
		PROJECT TYPE CODE	character	10	Yes	PK	The code that designates the type of project that is being conducted.
		PROJECT TYPE TEXT	character	100	Yes		The text that describes the code for a specific project type.
						*Key	(PK: Primary Key) (FK: Foreign Key which is PK of related entity) (PK, FK: Foreign Key part of PK)

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## 5. Business Rules

Rules under which data is used and modified (See H 1283-1, Data Administration and Management Handbook, Chapter 8 – Documenting Business Rules)

<del>_</del>					
Change to existing land use planning areas	Change to existing land use planning areas				
Land Use Planning Handbook	Land Use Planning Handbook				
le Amendments and Revisions in LUP Handbook					
An amendment or a revision can change an existing l	and use planning area. See				
Appendix C for more details.					
ne) Standard					
Automation Restriction?	No				
(Yes, No – caused by the limits of technology)					
ter Application, Not Applicable)	Manual				
e Dates (rules kept   Beginning Date   End	ling Date				
purposes)					
ir u	Land Use Planning Handbook  ule Amendments and Revisions in LUP Handbook  An amendment or a revision can change an existing I Appendix C for more details.  ine) Standard  Automation Restriction?  (Yes, No – caused by the limits of technology)  uter Application, Not Applicable)				

2. Rule Name	Historical Land Use Planning Areas
Rule source (e.g. handbook, guidance, directive)	Guidance
Source Description (brief explanation of where the rule	Land Use Planning Handbook
comes from)	
Rule Statement	Land Use Planning Area Boundaries are moved to the history data set when:
(what is the rule?)	1) An amendment has a ROD which changes the Planning Area Boundary. The
	original Planning Area Boundary is archived and the Land Use Planning Archive
	Date is populated with the amendment ROD Date.
	2) A new Land Use Plan X includes an area from another Land Use Plan Y. The
	original Y Land Use Planning Area Boundary is archived and the Boundary
	Inactive Date is populated with the new Plan X ROD Date. A new planning
	area boundary for Y is created that excludes the area that is now in Land Use
	Plan X.

			3) A new land use plan replaces another land use plan. The prior Land Use									
			Planning Area Boundary is archived.									
					See appendix C below for more details.							
Type of Rule (			n, Standard	, Guideline)			Guideline					
Is it Mandator	y, Optiona	l or Not		Mandatory			Automation Restri	iction	?		No	
Applicable bed	cause it is a	a Busine	ss Term?			1	(Yes, No – caused	l by th	e limits of	C.		
							technology)					
How is Rule In	mplemente	d? (Mar	ual Process	s, Computer A	Appl	lication, No	ot Applicable)				Manual	
Name of Appl										•		
11												
Rule Status (A	ctive,	Active	Rule Effe	ective Dates (	rule	s kept	Beginning Date			Ending	g Date	
Inactive)	,			rical purposes	`	1						
,	l.			1 1	/				L			
3. Rule N	Jame				Lead Organization for Land Use Plan							
Rule source (e		ok guid	ance direc	tive)	Land Use Planning Handbook							
raio source (e	.g. nanaoo	on, gara	arroo, arroo		Zand Coo I faming Handoook							
Source Descri	ntion (brie	f explana	ation of wh	ere the rule								
comes from)	p 1 2 1 1 (											
Rule Statemen	ıt.				Many organizations may be involved in various roles on a land use plan. If more							
(what is the ru					than one organization is involved in a land use plan, one is designated as the lead							
(Wilde Is the Is	10.)				organization.							
Type of Rule (	e.g. Busin	ess Tern	n. Standard	Guideline)	٠٠ <i>٤</i>	umzumom						
			i, Stailatia			Automati	on Restriction?				No	
			ss Term?	TVI ariancory	(Yes, No – caused by the limits of technology)							
				Manual								
	1	,		Wandar	ш							
Name of Application or Manual Process												
Traine of Experiential of Irlanda Frocess												
Rule Status	Active	Rul	e Effective	Dates (rules		Reginning	o		Ending [	)ate		
	1101110			`	,	_			Linging L	- 410		
` '		Kop	. 101 11151011	car parposes,	,	Duic						
Type of Rule ( Is it Mandator Applicable bee How is Rule In Process, Comp Applicable) Name of Appl Rule Status (Active, Inactive)	y, Optiona cause it is a mplemente outer Appli	l or Not a Busine ed? (Man ication, l Manual l	ss Term? nual Not Process e Effective	Mandatory  Manual  Dates (rules cal purposes)		Automati		mits o	f technolo		No	

4. Rule Name	"Existi	"Existing" and "In Progress" land use plans							
Rule source (e.g. handbook, guidance, directive	e) ePlann	ePlanning							
Source Description (brief explanation of where	the Land U	Jse Planning							
rule comes from)		_							
Rule Statement	There a	re two types of Plant	ning Area Boundaries:						
(what is the rule?)	1)"Exist	ting" Land Use Plans	which have a Record of Dec	ision Date and are being					
	impleme	ented. Only an amen	dment can change the planning	ng area boundary.					
	process Boundar has been	2)"In Progress" Planning Area Boundaries which are created during the planning process and do not have a Record of Decision. The "In Progress" Planning Area Boundary can become an "existing" planning area boundary once the land use plan has been approved. Changes "In Progress" are not considered records and old boundaries will not be archived.							
Type of Rule (e.g. Business Term, Standard, Gu									
	ot	Automation Restriction?							
Applicable because it is a Business Term?   Applicable because it	oplicable	able (Yes, No – caused by the limits of technology)							
How is Rule Implemented? (Manual No.	ot Applicable								
Process, Computer Application, Not									
Applicable)									
Name of Application or Manual Process									
Rule Status Active Rule Effective Dat kept for historical	·	Beginning Date	Ending Date						
Inactive)	purposes)								

5. Rule Name	Record of Decisions (RODs)
Rule source (e.g. handbook, guidance, directive)	ePlanning
Source Description (where the rule comes from)	Planning Handbook
Rule Statement	The Land Related Project (Record of) Decision Date is the date on which the LAND
(what is the rule?)	USE PLAN or amendment is officially approved, the Record of Decision (ROD).
	There is only one ROD for the land use plan. A decision area (Land use Decision
	Area) will also have its own decision date, but this is not the same as the ROD date.

Type of Rule (e.g. Business	Term, Standard, C	Guideline)	Business Term				
Is it Mandatory, Optional or	Not Applicable	Not Applicable Automation Restriction?					
because it is a Business Term	1?			(Yes, No - caused	l by the limits of technology)		
How is Rule Implemented? (	Manual	Not Applica	ble				
Process, Computer Application	on, Not						
Applicable)							
Name of Application or Man	ual Process						
Rule Status Active	Rule Effective Da	tes (rules	Beginning	Date	Ending Date		
(Active,	Active, kept for historical p						
Inactive)							

6. Rule Name		All data elements for the land use planning area boundaries are mandatory.					
Rule source (e.g. handbook, guidance, directive	e)	ePlanning					
Source Description (where the rule comes from	/	Planning H					
Rule Statement		If a data ele	ement value is mi	issing, use "MSG" for missing domain values or use			
(what is the rule?)	•	"Missing B	ut Required" for	text fields.			
Type of Rule (e.g. Business Term, Standard, G	luideline)		Business Term				
Is it Mandatory, Optional or Not Applicable	Not Applica	eable Automation Restriction?					
because it is a Business Term?		(Yes, No – caused by the limits of technology)					
How is Rule Implemented? (Manual	Not Applica	able					
Process, Computer Application, Not							
Applicable)							
Name of Application or Manual Process							
Rule Status   Active   Rule Effective Dat	tes (rules	Beginning	g Date	Ending Date			
(Active, kept for historical	purposes)						
Inactive)							

7. Rule Name	Land Related Project Decision Signer Name
Rule source (e.g. handbook, guidance, directive)	ePlanning

Source Description (where the rule comes from)			Planning Handbook					
Rule Statement		Т	The person who	is designated as	the senior signator	ry will be used	for the Land	
(what is the rule?)		F	Related Project	Decision Signer	Name.			
Type of Rule (e.g. Busine	ess Term, Standard, C	Guideline)	)	Business Term				
Is it Mandatory, Optional	or Not Applicable	Not Ap	plicable	Automation Re	striction?			
because it is a Business T	Term?			(Yes, No – caus	sed by the limits of	technology)		
How is Rule Implemente	d? (Manual	Not App	Not Applicable					
Process, Computer Appli	cation, Not							
Applicable)								
Name of Application or I	Manual Process							
Rule Status Active Rule Effective Dates (rules			ules Beginning Date Ending Date					
(Active,	kept for historica	l purposes	s)	_		3		
Inactive)								

**6. Other Material** Any other supporting material that aids in the understanding or use of the data standard; include specific geographic, organizational, or applicability constraints for non-national standards.

**Data Standard Proposal for Land Use Planning Boundaries** 

7. Domains Specific to this Standard. The attributes and their domain values relevant to this data standard.

Link to domains specific to Land Use Planning

## **Appendix A – Data Categories**

How this standard fit into/supports the Bureau Enterprise Architecture.

What DOI Subject Areas and Information Classes does this standard cover?

<u>Subject Area</u>: A collection of data classifications representing broad categories of information that support a line of business. <u>Information Class</u>: A logical grouping of entities that are subcategories of the subject areas.

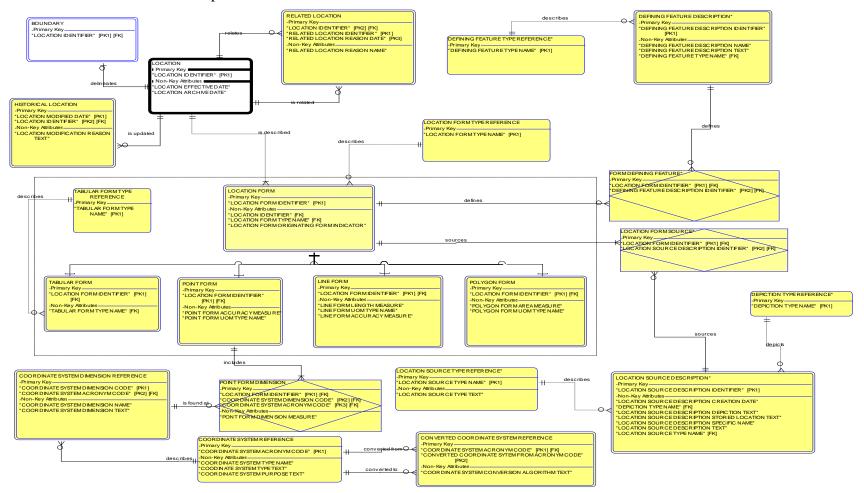
For the full list of the approved Subject Areas and their Information Classes, please see

http://web.blm.gov/data\_mgt/guidelines/DOI\_SubjectArea\_InfoClass.doc

ASSET (Subject Area)	Information about the items, objects, and property used to support the activities required to keep
	the Department and Bureaus functioning.
• Land (Information Class)	The earth's surface, extending downward to the center of the earth and upward into space.
GEOSPATIAL & GEOGRAPHY	Information about data that includes a terrestrial coordinate system or geographic reference. This
(Subject Area)	includes geospatial data sets, mapping, imagery, coverage's, elevations, and features.
• Location (Information	Information about an identifiable place of existence. A geographic or spatial identification
Class)	assigned to a region or feature based on a specific coordinate system, or by other precise
	information such as a street address, a postal address, a descriptive location, a legal land
	definition, etc. Location data types primarily consist of Vector data.
PLANNING & RESOURCE	Information about activities, products, and services related to determining strategic direction,
<b>ALLOCATION</b> (Subject Area)	identifying and establishing programs and processes, and allocating resources (capital and labor)
	among those programs and processes.
• (Information Class)	All information classes for Planning & Resource Allocation are included in this data standard.

## Appendix B – Location

Data Model that provides information on standard attributes for any type of location (either a description or a geospatial reference) and feature level metadata. It is **not part of this data standard** and does not need to be reviewed for the data standard, merely provides more information and relationships.



Legend: PK (Primary Key) – uniquely identifies one occurrence (row) of the entity; FK (Foreign Key): is all or part of the PK of another entity it is related to. PK1, PK2 – indicates the PK is made of more than 1 attribute to make it unique. The Word Identifier indicates that this will be a designed key, its format is not known, but the modeling tool required a format and size. The actual content and size of the identifier will be determined during design

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
BOUNDA	RY						DRAFT ENTITY
	The edge of a	location that demarks the ch	ange from	one l	ocation	to and	other location.
		LOCATION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single
							occurrence of the entity.
CONVERT	TED COORDINA	ATE SYSTEM REFERENCE					DRAFT ENTITY
	The domain of	of values for the algorithm us			om one	coord	· · · · · · · · · · · · · · · · · · ·
		COORDINATE SYSTEM	character	60	Yes		The text that contains the algorithm used to convert from one
		CONVERSION ALGORITHM TEXT					coordinate system to another.
		COORDINATE SYSTEM	character	10	Yes	PK, FK	The code that is considered the acronym for the coordinate
		ACRONYM CODE				FK	system type.
		CONVERTED COORDINATE	character	10	Yes	PK	The code for the coordinate system that is being converted from
		SYSTEM FROM ACRONYM					(to another coordinate system).
		CODE					
COORDIN	IATE SYSTEM	DIMENSION REFERENCE					DRAFT ENTITY
	The dimension	ons that are part of given coo				T	
		COORDINATE SYSTEM	character	100	Yes		The text that further describes the dimension for a given
	_	DIMENSION TEXT					coordinate system type.
		COORDINATE SYSTEM	character	10	Yes	PK	The code that is used to designate a dimension for a coordinate
		DIMENSION CODE					system type.
		COORDINATE SYSTEM	character	10	Yes		The name associated with a code that is used to designate a
		DIMENSION NAME					dimension for a coordinate system type.
	-	COORDINATE SYSTEM	character	10	Yes	PK,	The code that is considered the acronym for the coordinate
		ACRONYM CODE				FK	system type.
COORDIN	NATE SYSTEM						DRAFT ENTITY
	A system for	assigning an n-tuple of numb				oint ir	·
		COODINATE SYSTEM TYPE TEXT	character	100	Yes		The text that describes the particular coordinate system type.
		COORDINATE SYSTEM TYPE NAME	character	40	Yes		The name given to a particular coordinate system type.

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
		COORDINATE SYSTEM ACRONYM CODE	character	10	Yes	PK	The code that is considered the acronym for the coordinate system type.
		COORDINATE SYSTEM PURPOSE TEXT	character	100	Yes		The text that describes the purpose or purposes of a given coordinate system type.
DEFINING	FEATURE DE	SCRIPTION*					APPROVED ENTITY: BLM
				at can	be used	d to de	efine / create the location, based on the Defining Feature Type
	Name. There	is not a finite set of values for			1	ı	
		DEFINING FEATURE DESCRIPTION NAME	character	40	Opt		The name that identifies a more specific description of the feature from which the arcs are derived to create polygon boundaries. This information further describes the physical or mapping feature that makes up the polygon boundary.
		DEFINING FEATURE DESCRIPTION TEXT	character	200	Yes		The text that provides further details on the Defining Feature Description.
		DEFINING FEATURE DESCRIPTION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
		DEFINING FEATURE TYPE NAME	character	30	Yes		The name that identifies the high-level category for the actual physical or mapping characteristics (features) from which the arcs are derived.
DEFINING	FEATURE TY	PE REFERENCE*				ı	APPROVED ENTITY: BLM
	domain for the oundary.	e description of the character	ristic (feat	ure) c	onstruct	ted fro	om a geographic feature that was used to create the location
		DEFINING FEATURE TYPE NAME	character	30	Yes	PK	The name that identifies the high-level category for the actual physical or mapping characteristics (features) from which the arcs are derived.
DEPICTIO	N TYPE REFER	ENCE*					APPROVED ENTITY: BLM
		of values for the way a locati	on is depi	cted e	ither in	scale o	or resolution.
		DEPICTION TYPE NAME	character	10	Yes	PK	The name that designates the detail with which the location is depicted, either in resolution or scale.
FORM DE	FINING FEAT	JRE*					APPROVED ENTITY: BLM
	The defining	features associated with a sp	ecific loca	ation f	orm.		

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
		LOCATION FORM IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
		DEFINING FEATURE DESCRIPTION IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
HISTORIC	CAL LOCATION						DRAFT ENTITY
	The date and corrections to	•	rmation h	as cha	inged. B	usine	ss Rule: this is for administrative changes, not necessarily for
		LOCATION MODIFICATION REASON TEXT	character	200	Yes		The text which is the explanation for why data about a location has changed for administrative reasons.
		LOCATION MODIFIED DATE	date		Yes	PK	The date which is the calendar year, month, and day when the position of the Location was last modified.
		LOCATION IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
р		· · · · · · · · · · · · · · · · · · ·	_	•			It is used to represent rivers, and roads, or to form the boundary of includes all types of straight and curved lines including ones that
-		dictionary) Note: In our curre LOCATION FORM	nt physica	al envi	ronmen	t this	includes all types of straight and curved lines including ones that  The designed primary key that will uniquely identify a single
		IDENTIFIER				FK	occurrence of the entity.
		LINE FORM LENGTH MEASURE	decimal		Yes		The measure of the length of the line described in the Line Form UOM Type Name.
		LINE FORM UOM TYPE NAME	character	20	Yes		The domain value associated with the Unit of Measure used for the Line Form Length Measure.
		LINE FORM ACCURACY MEASURE	decimal		Yes		The measure that describes how close, in Line Form UOM Type Name the actual location is to the spatial depiction.
LOCATIO	N						DRAFT ENTITY
	A defined pla	ce that requires a way to loc	ate it by s	ome n	neans. N	Note: E	Entities linked to Location have the potential for a geospatial aspect.
		LOCATION ARCHIVE DATE	date		Opt		The date which is the calendar year, month, and day when the position of the Location is considered no longer valid but has historical value.

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
		LOCATION EFFECTIVE	date		Yes		The date which is the calendar year, month, and day when the
		DATE					position of the Location was produced.
		LOCATION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single
							occurrence of the entity.
LOCATIO	N FORM						DRAFT ENTITY
	The form in v	which the location is describe	d such as	the de	escriptio	on, sha	ape, or appearance of the location.
		LOCATION FORM	integer		Yes	PK	The designed primary key that will uniquely identify a single
		IDENTIFIER					occurrence of the entity.
		LOCATION IDENTIFIER	integer		Yes	FK	The designed primary key that will uniquely identify a single
							occurrence of the entity.
		LOCATION FORM TYPE	character	10	Yes	FK	The type of form in which the location is described or appears.
		NAME					point, line, polygon, tabular
		LOCATION FORM	character	3	Yes		The value that indicates if this is the way in which the location was
		ORIGINATING FORM					first drawn/described. (yes, no)
		INDICATOR					
LOCATIO	N FORM SOUI	RCE*					APPROVED ENTITY: BLM
	The actual or	rigin of the location sources t	hat were	used to	o create	a spe	cific location form.
		LOCATION FORM	integer		Yes	PK,	The designed primary key that will uniquely identify a single
		IDENTIFIER				FK	occurrence of the entity.
		LOCATION SOURCE	integer		Yes	PK,	The designed primary key that will uniquely identify a single
		DESCRIPTION IDENTIFIER				FK	occurrence of the entity.
LOCATIO	N FORM TYPE	REFERENCE		l		l	DRAFT ENTITY
	The domain	for the type of form in which	the locati	on is c	lescribe	d or a	ppears whether in words, numbers of features (point line, polygon).
		n called feature in geospatial					, , , , , , , , , , , , , , , , , , , ,
		LOCATION FORM TYPE	character	10	Yes	PK	The type of form in which the location is described or appears.
		NAME					point, line, polygon, tabular
LOCATIO	N SOURCE DE	SCRIPTION*					APPROVED ENTITY: BLM
	The values th	nat provide a second level of	detail abo	ut the	locatio	n (coo	rdinate) source origin. Note: there is not a finite set of these values.
		LOCATION SOURCE	date		Yes		The date on which the location source was originally created. This
		DESCRIPTION CREATION					could just be a year (ccyy).
		DATE					

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
		LOCATION SOURCE DESCRIPTION STORED LOCATION TEXT	character	100	Yes		The text that provides the additional description of where the coordinate source can be found
		LOCATION SOURCE DESCRIPTION DEPICTION TEXT	character	20	Yes		The text that describes the actual resolution or scale in which the location is depicted. Examples for Resolution: 1 meter, 10 feet. Examples for Scale: 1 in 10,000, 1 in 100. This does not have a domain or list of valid values.
		DEPICTION TYPE NAME	character	10	Yes	FK	The name that designates the detail with which the location is depicted, either in resolution or scale.
		LOCATION SOURCE DESCRIPTION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
		LOCATION SOURCE DESCRIPTION TEXT	character	200	Yes		The text that provides further details on the Location (coordinate) Source Description.
		LOCATION SOURCE DESCRIPTION SPECIFIC NAME	character	40	Opt		The name that identifies a more specific description of the location (coordinate source).
		LOCATION SOURCE TYPE NAME	character	40	Yes	FK	The name that identifies the general category for the origin of the location coordinate, representing a compilation of the state adopted source codes. The domain contains those values that would most likely be used in the determination of source codes for the data set.
LOCATIO		PE REFERENCE*					APPROVED ENTITY: BLM
	The domain	for the types of sources for t LOCATION SOURCE TYPE NAME	he original	locati 40	Yes	PK	The name that identifies the general category for the origin of the location coordinate, representing a compilation of the state adopted source codes. The domain contains those values that would most likely be used in the determination of source codes for
		LOCATION SOURCE TYPE TEXT	character	100	Yes		the data set.  The text that describes the Location Source Type.
POINT FO	POINT FORM						DRAFT ENTITY

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition
	A zero-dimer	nsional abstraction of an obje	ct, with it	s locat	tion spe	cified	by a set of coordinates. (GIS dictionary)
		LOCATION FORM IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
		POINT FORM ACCURACY MEASURE	decimal		Yes		The measure that describes how close the spatial depiction of the point is to the actual location.
		POINT FORM UOM TYPE NAME	character	20	Yes		The name of the domain value associated with the Unit of Measure used for the Point Form Accuracy Measure.
POINT F	ORM DIMENSI	ON			I		DRAFT ENTITY
	The measure	associated with each dimen	sion of a C	Coordi	nate Sys	stem.	
		PONT FORM DIMENSION MEASURE	decimal		Yes		The measure that is associated with a specific coordinate system dimension.
		LOCATION FORM IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.
		COORDINATE SYSTEM DIMENSION CODE	character	10	Yes	PK, FK	The code that is used to designate a dimension for a coordinate system type.
		COORDINATE SYSTEM ACRONYM CODE	character	10	Yes	PK, FK	The code that is considered the acronym for the coordinate system type.
POLYGON FORM DRAFT ENTITY							DRAFT ENTITY
		us land use and soil types. (G					s, such as administrative and political boundaries and areas of ysical environment, this includes all types of polygons, including
		LOCATION FORM IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity.
		POLYGON FORM UOM TYPE NAME	character	20	Yes		The name of the domain value associated with the Unit of Measure used for the Polygon Form Length Measure.
		POLYGON FORM AREA MEASURE	decimal		Yes		The area of the polygon described in the Polygon Form UOM Typ Name.
RELATED	LOCATION						DRAFT ENTITY
		onship between two LOCATIO	ONs for a s	pecifi	c reasor	١.	

Entity Name	Entity Description	Logical Data Element Name	Туре	Size	Requi red?	Key *	Definition		
		RELATED LOCATION IDENTIFIER	integer		Yes	PK	The designed primary key that will uniquely identify a single occurrence of the entity. The first location that has a relationship with another location.		
		RELATED LOCATION REASON NAME	character	40	Yes		The name that indicates the reason why two locations are related. Possible values: multi-part polygon, polygon lines, overlapping polygons.		
		RELATED LOCATION REASON DATE	date		Yes	PK	The date when two locations became related for the reason stated.		
		LOCATION IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.		
TABULAF	TABULAR FORM  DRAFT ENTITY  Descriptive information about a location, usually alphanumeric. This can be a single name or a combination of attributes that make up an address.								
		LOCATION FORM IDENTIFIER	integer		Yes	PK, FK	The designed primary key that will uniquely identify a single occurrence of the entity.		
		TABULAR FORM TYPE NAME	character	20	Yes	FK	The name of the sub-category of the location form type which is true for tabular or alphanumeric descriptions of a location.		
TABULAR FORM TYPE REFERENCE DRAFT ENTITY									
The domain for the type of tabular form that is being used to describe the location.									
		TABULAR FORM TYPE NAME	character	20	Yes	PK	The name of the sub-category of the location form type which is true for tabular or alphanumeric descriptions of a location.		
							(PK: Primary Key) (FK: Foreign Key which is PK of related entity) (PK, FK: Foreign Key part of PK)		

## **Appendix C – Planning Area Boundary Business Rules Matrix**

The following matrix provides information on Planning Area feature classes for existing polygons and historical polygons. ePlanning creates new Plan Ids for any new or amended LUPs. These identifiers are not the same as the unique identifier for the Planning Area Boundaries (LUPA\_ID). The LUPA\_ID is what uniquely identifies a planning area boundary. If a planning area boundary changes, for any reason, a new LUPA\_ID will be created in the LUPA\_EXIST\_POLY feature class and the old one will be moved to the historical feature class. ePlanning will need to link the LUPA\_ID to the appropriate Plan Id in ePlanning.

Situation	LUPA_EXI	L	UPA_HIST_	ePlanning		
	LUPA_ID	ROD DATE	LUPA_ID	LUP INACTIVE_ DT	BNDY_INACT IVE DATE	(LUPA_ID is data element attached to a Plan in ePlanning)
New Land Use Plan replaces Old Land Plan	New Polygon with new LUPA_ID	ROD Date from new LUP	Existing LUPA_ID	New LUP ROD Date	Blank	ePlanning links LUPA_ID to Plan ID
New LUP (X) replaces part of another LUP (Y)	X gets new polygon with new LUPA_ID	X gets New ROD Date	Existing LUPA_ID	New LUP X ROD Dt	Blank	ePlanning links LUP X PLAN ID to its new LUPA_ID
	Y gets new polygon with new LUPA_ID	Y keeps its ROD for remaining area	Existing LUPA_ID	Blank	Use LUP X New ROD Dt	ePlanning links LUP Y PLAN ID to its new LUPA_ID
LUP is amended*, boundary not changed	No change	New ROD Date	No record			ePLanning links amendment PLAN_ID to existing LUPA_ID
LUP is amended*, boundary changes	New Polygon with new LUPA_ID	New ROD Date	Existing LUPA_ID	New LUP ROD Date	Blank	ePLanning links LUP amendment PLAN_ID to new LUPA_ID
Maintenance (correction) to LUP changes boundary	New Polygon with new LUPA_ID	Existing ROD Date	Existing LUPA_ID	Blank	Maintenance date	ePlanning replaces LUPA_ID in existing Plan

<sup>\*</sup> Revisions will be handled the same as amendments.